ABSTRACT OF THE DISCLOSURE

According to the present invention, there is provided a variable resistance circuit comprising,

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a resistor unit having a plurality of resistors series-connected between an input terminal and a predetermined potential terminal, and a switch group including a plurality of switches each having one end connected to a node between the input terminal and the resistor, a node between the resistors, or a node between the resistors, or a node between the resistor and the predetermined potential terminal, and the other end connected to an output terminal; and

a switch control circuit which supplies a control signal to the switch group,

wherein an attenuation step is generated supplying the control signal to a pair of adjacent switches included in the switch group so complementarily, periodically turning on/off the pair of switches at a duty of a/b (a and b are positive integers which satisfy a < b) for one switch and a duty of (b-a)/b for the other switch.